Advertising honey—54
rubber stamp—231
Airplanes, farm use of—225
Aifaifa, pollination of—176, 436
All Around the Bee Yard—46, 168, 212, 330, 370, 410
American Beekeeping Pederation—(ed. 6) 30, ed. 86) 105, 106, 197 (ed. 254), 275, 301, 343, 389, 416, (ed. 454), 478
Educational Besearch Com.—392
Kit for October—389
Ladies' Auxiliary—352, 478
American foulbrood, combating—141, 270, 271, 432
American Honey Institute—106, 312, 357, 359
Antiblotics—21, 388
Anis, control of—387
Anisy—
Inspection in Kansas—103
law, Michigan—435
Arthritis, bee stings for—424

"Badger Bee"—104 Bears, pepper for— Bears, pepper for—355
Bee Ard.—344
Beard.—344
behavior—296, 345, 422
breeder, management for—92
stings for arthritis—424
stings, treatment for—56, 227, 229, 386
Bee Industries Assoc.—106
Beekeepers—
chats—344
social security for—170
Beekeeping—
as a hobby—183
films—69, 178, 191, 273
in Brazil—380
in Denmark—309
in India—430
in Michigan—266
in Missourl—144
in North Carolina—382
in Pennsylvania—467
in U. S. and Europe—(ed. 374, 414)
literature—(ed. 414)
mussum, British national—59
organizations abroad—429
picture library, Eng.—58
Bees—
a cloud of—429
Bees—
a cloud of—429 bees—
a cloud of—429
film "Aplculture"—191
film "Bees for Hire"—69, 178
film "The Honeybee"—191
moving—134
on TV—344, 354
photographing—178
polishing by—56
sugar preference of—351
transferring—228
transported to Calif.—464
trapping out—224
uniting—376
value to white clover—460
"Bees' Struggle"—111
Beeswax production, gov't figures, 1953—99
Beginner's articles—20, 58, 101, 141, 187, 229,
271, 311, 351, 381, 432, 465, 471
Book Beviews—
Bees to the Heather—Whitehead—310
Dancing Bees—Von Prisch—310
Insect Facts and Polklore—Clausen—312
Kleine Bienenkunde—Jordan—350
Legume Culture and Picture Identification—Hartwig—312
world of the Honeybee—Butler—307
Brood rearing—137
Butler, Charles, memorial—392

California—
first bees in—464
honey promotion—100
Cappings press—96
Cherry pollination—458
Chunk honey production—302
Clover, crimson, seed supply—307
red, pollination—350
red, seed production—230
sweet, weevil—56
Combs, replacing—89, 185
Contests, national—(ed. 214)
Cotton acreage in '54—59
Covers for 1964—
January—Honey exhibit
February—National Honey Show—London

March—Bees and blossoms
April—Wild plum blooms
May—Bee on blossom
June—Swarm
July—Queen being clipped
August—Bee on japonica
Sept.—Prof. Montgomery and children
Oct.—Karen Schunacher
Nov.—Bee on birdsfoot trefoil
Dec.—Christmas scene
Crops and Markets—34, 72, 112, 154, 200,
240, 280, 320, 360, 460, 440, 480
Crops and wages—(ed. 124)
Cyanogas, how to use—98

DDT toxic to bees—102
Death notices—
Bilsing, Dr. S. W.—352
Bodenschatz, Adam—27
Craig, Evan D.—272
Dadant, James Camille—269
Davis, Donald E.—394
Hann, Albert G.—153
Homolka, J. J.—458
Howe, George S.—191
Johnson, H. J.—394
Kirkpatrick, George—69
Kommer, Ed—191
Park, Dr. O. W.—433
Pease, Charles H.—473
Sain, Mitton Jay—104
Sheuherd, Chester E.—313
Smith, Jay—24
Tri, Quenten—272
Vansell, George H.—466
York, Mrs. H. F.—431
Deyell, Jack, 20th anniversary—97
Disease control—
in wild bees—352
insurance in Britain—350
terramycin for—99
Displays—
Illinois State Fair—145, 146 terramycin 107—99
Displays—
Illinois State Pair—145, 146
Michigan State Fair—182
North Ark. Assoc., Jasper Co. Fair—103
Drought—142, 436
Dyce, Dr. E. J., honored—102

Editorials—
Advertising—44
American Beekeeping Federation—
convention, 1954—86
1955—454 American Beekeening Pederation—
convention, 1954—86
1955—454
honey in baking promotion—414
supporting—6. November panel
Beekeening in U. S. and Europe—374, 414
Beekeeping literature—414
Canada points the way—44
Crapberry sales—124
Crops and wages—124
Economic entomology—334
Extracting. portable outfit for—384
Fair exhibits—314
Honey, food value of—214
for school lunches—254
in baking—414
market—414
plants—374
promotion—454
Legumes, increase of—36, 254, 454
Marketing—294
National contests—214
National contests—214
National Honey Week—334
Prices gretali—294
Supporting organizations—44, 86, 214
European foulbrood, preventing and controlling—14, 388
Express rates on bees—(ed. 254)

Fair exhibits—(ed. 214), 265, 378, 473
Feeding drv sugar—972
Films—69, 178, 191, 273
Follow—69, 178, 191, 273
Freeman, George W., Tenn. inspector—102
Funnarillin for Nosema—52, 189
Funnight for Nosema—55, 85, 136
Funnight for combs—228, 347, 350

Hillary, Sir Edmund—143 honored—189, 230 presentation fund—58

Hive—
scale—362
trap—224
weights—57
Hives moving—223
Honey—
Advisory Board, Calif.—273
aralea—181
baby—463
candy—340
chunk—141
consumer survey in Calif.—265
consumption in Canada—355
containers—304
cut comb—180
export program—387
feeding to cattle—146
fermentation—18, 140
food value of—(ed. 214), 224
for babies—300
for energy—21, 59, 138, 225, 260, 275, 301, 387, 390, 431
for pipes—19
for school lunches—(ed. 254)
found at Paestum—397
granulated—57, 471
house, building—342
doors—226
economical—226
in Virginia—420, 462
inspection—135
portable—384
sanitation—(ed. 6), 69
in baking—26, 272, (ed. 414), 431
Industry Council—106
jars—423
marketing—140, 180, 183, (ed. 214), 268, (ed. 294), 312, 336, 343, 349, (ed. 374), 386, (ed. 214), 423, 428
bulletin board—59
Colorado—274
medicinal uses of—306, 346, 390, 427, 468
plants in Hawaii, pest threatens—458
production, gov't figures, 1953—99
list—418
in alfalfa pollination—176
in Australia—59
in California, 1953—146
in Kansas, 1953—148
in California—100, 435
in Colorado—143, 475
publicity—55
radio—473
queen, Lorain Co., Ohio—144
Michigan—273
Minnesota—314
recipes—142, 191, 227, 359
selling by flavor—428
show, national—236, 278
sourwood production—62
sugar content of—339
uses of—186
varieties of—390
week—(ed. 334)
birdsfoot trefoil—305
japonica—352
mangrove—231
saw palmetto—231
(see also Honey plant garden)

Inspection rules for Ark,-315

Laidlaw, H. W., to Brazil—458
Laughing gas (nitrons oxide)—18, 270
Legumes, increase of—(ed. 86, 254), 308,
(ed. 454)
Locations—220

Management—
chunk honey—302
for the breeder—92
good—458
outyard—216
short cuts—Dec. panel—456
Meetings—(ed. 294)
Alabams—State—27
American Bee Breeders Assoc.—438, 478
American Beekeeping Pederation—Baltimore—30, 106
Chicago, 1955—197, 357, 478
Ladies' Auxiliary—478

Arkansas—North—31, 317, 357
State—395, 474
California—State—439
Colorado State—478
Connecticut—State—68, 150, 237, 396
Florida—Southern Conference, Orlando—317, 356, 396, 434, 437
State—34
Georgia—Southern Conf. and ABBA—64
State—356
Hilmois—Cook DuPage—68, 196
Kane—DeKalb—356
Book River Valley—196
State—108, 256, 277, 353, 438
University—31
Indina—Relieve Field Day—317
International Congress, Copenhagen—68, 108, 126, 197, 237, 278, 319, 397, 469
Iowa—Short Course—150, 197
State—438
Kansas—Crawford Co.—103
State—396
State College—33
Maine—State—196
Manitoba—438
Massachusetts — Middlesex Co.—31, 68, 103, 150, 237, 277, 314, 354, 396, 438, 478
University—277
Worcester Co.—314
Michigan—State—277, 438
Wayne Co.—150
Minnesota and N. Dakota—237, 277
Farm and Home Week—31
Lake Region—108
National Honey Show—236, 317
Short Course—196
State—102, 439
Mississippi—Farm and Home Week—277
Missouri—Eastern—237
Western—317
Montana—State—103, 437
New Jersey—Bergen Co.—356
State—37
Western—317
Montana—State—103, 437
New Jersey—Bergen Co.—356
State—37
Western N. Y. Honey Prod. Assoc.—315
North Carolina—State—33, 317
Ohio—Cuyahoga Co.—99
State—237
Ontario—25, 438
Oregon—State—478
Pennsylvania—Berks Co.—316, 396
Northwestern—277
Short course—236, 276
State—197, 393
York Co.—33
R. I., Mass., Conn. Tri-State—276
South Carolina—Short course—316
State—109
Southern States Pederation, Orlando—150
Tennessee—East—353
Grundy Co.—53 South Carolina—Short course—316
State—109
Southern States Pederation, Orlando—150
Tennessee—East—353
Grundy Co.—62
Vermont—State—68, 109, 317
Virginia—Short course—278
State—104
Washington—State—438
Wisconsin—Ladies auxiliary—396
State—103, 353, 357, 474
Moth damage—228, 347, 350, 47J
Moving bees—134

Nectar—poisoned—271
sugar concentration in—22
Nitrous oxide (laughing gas)—18, 270
Nosema, control with fumagillin—52
Fumidil-B for—55, 95, 136
in Kansas—103
Nuclei—263

Organizations—abroad—429 supporting—(ed. 44, 214, 254)

P

Package bees—booster—135 express rates on—(ed. 254) managing—48 anels—
January—How we do it.
February—How to manage package bees.
March—Replacing combs.
May—How to find and replace queens.
May—How to find and replace queens.
June—Flanning and records in outyard
management.
July—Queen excluders.
September—Preparing honey for market.
October—Uniting bees.
November—Raise honey to its rightful
level. level.

December—Short cuts in management.

Pellett—memorial—140, 277, 309
quotations from—15, 109

Pollen supplement—137

Pollination—142, 194, 221, 264
alfalfa—436
alfalfa, honey production in—176
cherry—458

clover—313, 460 cotton—234 film on—272 in Mass.—146 potato—351 red clover—350 vetch—427 vetch—427
ottery, Prankoma—423
rice support for 1954—(ed. 6), 98, (ed. 124, 170), 177, (ed. 254), 349, 352
rices, retail—(ed. 294, 334)
ublications reviewed—
Adaptability of homecoming bee, Eng.—
22 Adaptability of homecoming bee, Eng.—22
Bee book for beginners, Tenn., Little—22, 62
Bee culture in Kansas, Parker—60
Bee Research Assoc. handbook—350
Beekeeping in Saskatchewan, Arnott & Bland—274
Rulletin E276, USDA—312
Crop pollination in Ark., Leaflet 177—102
Diseases of honey bees, Pub. 268, Winnipeg, Robertson—233
Effect of environmental factors in nectar secretion, 1963 Sixth Int. Grassland Congress Report—312
Growing alfalfa seed without destroying pollinators, cir. 55, Utah—233
Growing birdsfoot trefoil in Ill., Cir. 725, Pierce & Jackobs—353
Growing lupine on coastal Bermuda soil, Ga.—22
Handbook on beekeeping in Calif., Eckert, Manual 15—313
Honey—nature's perfect sweet'ner, Wash.—65
Honey—nome ways to use it, USDA Bul. Honey—some ways to use it, USDA Bul. 37—60 Honey recipes, Mimeo HE-171, Purdue-

Queen excluders—256, 385 finding box—227 how bees recognize—272 Queens—how to find and replace—172

Rahmiow, H. J., honored—64 Recipes—142, 191, 227, 359 Records in outyard management—216 Requeening—388 Research, agricultural—142 Royal jelly—357, 429 Royalyal yand bees—228

Seed crop reports—22
Social security for beekeepers—170
Spaulding, Glenn, Colo. inspector—163
Spraying—181
Sugar concentration in nectar—22
feeding to bees—272
Sulfathlazole control for AFB—270, 432, 470
Swarm control—232

Terramycin for disease control—99, 350 Turnbull, W. H., honored—104 Two-queen system—128

USDA beeswax and honey report, 1953—99 1954—418

Ventilating hives-229

Wasps molest bees—104, 418 Wax coloring—56 Wax moth—228, 347, 350, 470 Weight of hives—57 Wintering—383 in Kansas—395

CONTRIBUTORS

Adee, E. H.—376 Anderson, Edwin J. —256 Arbuckle, Clyde —

Banker, Robert — 185, 336, 385, 416, 456 456 Barnes, Balph—304 Bea, E. P.—417 Beilmann, August— 144
Biggers, George —
344
Booth, Martha E.—
336
Bowers, Ira J.—336
Braun, E.—48, 134
Brown, Roy D.—18,

C Cale, G. H., Jr.—10
Cale, G. H., Sr.—10,
128
Cameron, R. W.—48
Carlile, William—10
Childers, L. F.—302
Coggshall, Dr. W.
L.—172, 216

n Dadant, H. C.—89 Dadant, M. G.—181 Diehnelt, Walter — 89 Dunham, Dr. W. E.

E Eckert, Dr. J. E.-223, 386

Parrar, Dr. C. L.—
48, 52, 128, 376
Ployd, C. D.—416
Prancis, Mildred —
340
Prank, John—423
Prelhofer, G. Theodore—465
Prisque, Myron R.
—48

Gorham, B. F.—386 Grace, Harriett M. —300, 336, 397 Grout, Roy A.—39, 266 Gype, Walter—384 H

Hambleton, Jas. I. Hambleton, Jal. 1.

—469
Hansen, Henry W.

—48, 89
Haydak, Dr. M. H.

—416, 429
Hazard, Kenneth P. Hilliard, H. L., Sr. —224 Hoch, Hans—224 Hofmann, Chas.—89, Hormann, Chas.—89, 172 Hogarth, E. A.—89, 216, 457 Holzberlein, John W.—96, 128, 216, 456

J Jarvis, Dr. D. C.— 306, 346, 427, 468 Jensen, N. C.—216 Jessup, J. G.—172 Judd, William—426

Kalthoff, Carl - 89, 256 Killion, Carl E.—222 Kirlin, Elva—10 Knutson, Robert I. —137 Kratovil, E. J.—136 Krebs, H. M.—416 Laidlaw, Dr. H. H.,

Levin, M. D.—176 Long, John P.—48 Lyle, Newman I.— 216 Lyons, M. H.-Lysne, Julius -256, 383

Maxwell, H. L.—420, Mead, R. M.—308 Miller, Loren P. — Milum, Dr. V. G .-57 Moffett, Joseph O.— —14, 48, 216 Moosman, C. W.— 226 Morgenthaler, Dr. O.—56 Munro, Dr. J. A.— Mraz, Charles—342, 376, 388

Mc McPadyen, John W.
—216
McLaughlin, F. E.
—20, 58, 101, 141,
187, 229, 271, 311,
351, 391, 432, 471

Nance, Troy H. -172, 216, 256, 456 0

Oertel, E .-P

Paddock, P. B.—48, 344, 376 Pankiw, P.—134 Park, Dr. O. W.— 296, 345 Pellett, Melvin—16, 139, 305, 468

Rea, George — 135, 180, 467 Reed, Ray R.—100 Robinson, Earl C.— Ryan, Don-424

S Savos, M.—422 Schaefer, Henry A. —48, 98, 128, 125, 256, 349, 457 Schumacher, H a n s H.—265
Shaw, F. R. — 376, 422
Shaw, W. M.—422
Smeltzer, J.—262
Smola, Frank A. — 268 Smola, Frank A. — 268
268
Stephen, W. A.—382
Stewart, Lee R.—89, 172, 263, 376
Stricker, Milton H.—89, 256, 264
Studier, Herbert K.—456

T Teasley, Carl M.— 256 Tennent, Dr. J. N. 430 Townsend, G. F. — 260, 376

W Walstrom, R. J. -Walstrom, R. J. — 220
Watkins, S. J.—172, 343
Weaver, Roy A.—89
Webster, Marvin W.—180
Wells, T. J.—429
White, Arthur—183
Wicht, W. W.—172
Willson, R. B.—336, 418 Wolfe, Edward A .-